CONTENTS OF VOLUME 72

NUMBER 1

Evolutionary genetics and zoogeography of Middle American pocket gophers, genus *Orthogeomys* — *Mark S. Hafner* 1

Karyotypic evolution in *Ctenomys* (Rodentia, Ctenomyidae) — *Milton H. Gallardo* 11

Geographic variation in sea otters, *Enhydra lutris* — *Don E. Wilson, Michael A. Bogan, Robert L. Brownell, Jr., A. M. Burdin,* and *M. K. Maminov* 22

Sex-related patterns of postnatal development of sea otters in Prince William Sound, Alaska — *Charles Monnett, Lisa Mignon Rotterman,* and *Donald B. Siniff* 37

Phylogenetic analysis of Recent procyonid genera — *Denise M. Decker* and *W. Chris Wozencraft* 42

Phylogenetic relationships and systematics of the Nimravidae (Carnivora) — *Harold N. Bryant* 56

Genetic variability and biochemical systematics of domestic and wild cat populations (*Felis silvestris*: Felidae) — *Ettore Randi* and *Bernardino Ragni* 79

Cytogenetics and systematics of the rodent genus *Gerbillurus* — *Mazin B. Qumsiyeh, Meredith J. Hamilton, Edith R. Dempster,* and *Robert J. Baker* 89

A new species of water rat, genus *Neusticomys* Anthony, from the Andes of Venezuela — *José Ochoa G.* and *Pascual Soriano* 97

New species of Blancan woodrat (Cricetidae) from north-central Kansas — *Richard J. Zakrzewski* 104

Late Quaternary biogeography of the pygmy rabbit (*Brachylagus idahoensis*) in eastern Washington — *R. Lee Lyman* 110

Morphology and evolution of the wrists of burrowing and nonburrowing shrews (Soricidae) — *Donald L. Swiderski* 118

Temporal, spatial, and age-specific changes in genotypic composition of mule deer — *Kim T. Scribner, Michael H. Smith, Robert A. Garrott,* and *Len H. Carpenter* 126

Timing of parturition and lactation in southern mule deer — *R. Terry Bowyer* 138

Effects of maternal and grandmaternal nutrition on deer mass and vulnerability to wolf predation — *L. David Mech, Michael E. Nelson,* and *Ronald E. McRoberts* 146

Habitat specialization and social factors in distribution of red and gray squirrels — *Dennis A. Riege* 152

Nest-site selection and nest-building behavior of red-bellied tree squirrels on Tomogashima Island, Japan — *Mieko Setoguchi* 163

Loss of body mass associated with capture of *Sigmodon* and *Microtus* from northeastern Kansas — *Norman A. Slade* 171

Avoidance of high-potassium diets by captive meadow voles — *Paul A. Mickelson* and *Donald P. Christian* 177

Abundance and food-searching intensity of wood mice (*Apodemus sylvaticus*) in fragmented forests — *J. L. Tellería, T. Santos,* and *M. Alcántara* 183

General Notes

Comparative abundances of neotropical small mammals by trap height — *Jay R. Malcolm* 188

Track counts as indices to abundances of arboreal rodents — *Andrew B. Carey* and *Joseph W. Witt* 192

Banded karyotypes of *Ctenomys mendocinus* (Rodentia: Octodontidae) from Mendoza, Argentina — *Alicia I. Massarini, Maria A. Barros, Virgilio G. Roig,* and *Osvaldo A. Reig* 194

Observations on the preputial glands of three species of *Rattus* — *Stephen A. Mallick* 198

Pupping-site fidelity of Antarctic fur seals at Bird Island, South Georgia — *N. J. Lunn* and *I. L. Boyd* 202

Reproductive biology of captive capybaras — *Colin A. Chapman* 206

Influence of age on the reproductive effort of male reindeer — *Ilpo Kojola* 208

Circannual changes in reproductive organs and spermatogenesis in male Saskatchewan beavers — *Terry W. Rock, Peter F. Flood,* and *Norman C. Rawlings* 211

Derived features of giraffid ossicones — *Denis Geraads* 213

Evidence for the presence of ossicones in *Giraffokeryx punjabiensis* (Giraffidae, Mammalia) — *N. Solounias* and *S. M. C. Moelleken* 215

Reviews

The natural history of moles — *Charles A. Reed* 218

Dispersal in rodents: a resident fitness hypothesis — *Jerry O. Wolff, William Z. Lidicker, Ronald K. Chesser,* and *Michael H. Smith* 218

Books Received — 220

Comments and News — 222

Erratum — 229

CONTENTS OF VOLUME 72

NUMBER 1

Evolutionary genetics and zoogeography of Middle American pocket gophers, genus *Orthogeomys* — *Mark S. Hafner* 1

Karyotypic evolution in *Ctenomys* (Rodentia, Ctenomyidae) — *Milton H. Gallardo* 11

Geographic variation in sea otters, *Enhydra lutris* — *Don E. Wilson, Michael A. Bogan, Robert L. Brownell, Jr., A. M. Burdin,* and *M. K. Maminov* 22

Sex-related patterns of postnatal development of sea otters in Prince William Sound, Alaska — *Charles Monnett, Lisa Mignon Rotterman,* and *Donald B. Siniff* 37

Phylogenetic analysis of Recent procyonid genera — *Denise M. Decker* and *W. Chris Wozencraft* 42

Phylogenetic relationships and systematics of the Nimravidae (Carnivora) — *Harold N. Bryant* 56

Genetic variability and biochemical systematics of domestic and wild cat populations (*Felis silvestris*: Felidae) — *Ettore Randi* and *Bernardino Ragni* 79

Cytogenetics and systematics of the rodent genus *Gerbillurus* — *Mazin B. Qumsiyeh, Meredith J. Hamilton, Edith R. Dempster,* and *Robert J. Baker* 89

A new species of water rat, genus *Neusticomys* Anthony, from the Andes of Venezuela — *José Ochoa G.* and *Pascual Soriano* 97

New species of Blancan woodrat (Cricetidae) from north-central Kansas — *Richard J. Zakrzewski* 104

Late Quaternary biogeography of the pygmy rabbit (*Brachylagus idahoensis*) in eastern Washington — *R. Lee Lyman* 110

Morphology and evolution of the wrists of burrowing and nonburrowing shrews (Soricidae) — *Donald L. Swiderski* 118

Temporal, spatial, and age-specific changes in genotypic composition of mule deer — *Kim T. Scribner, Michael H. Smith, Robert A. Garrott,* and *Len H. Carpenter* 126

Timing of parturition and lactation in southern mule deer — *R. Terry Bowyer* 138

Effects of maternal and grandmaternal nutrition on deer mass and vulnerability to wolf predation — *L. David Mech, Michael E. Nelson,* and *Ronald E. McRoberts* 146

Habitat specialization and social factors in distribution of red and gray squirrels — *Dennis A. Riege* 152

Nest-site selection and nest-building behavior of red-bellied tree squirrels on Tomogashima Island, Japan — *Mieko Setoguchi* 163

Loss of body mass associated with capture of *Sigmodon* and *Microtus* from northeastern Kansas — *Norman A. Slade* 171

Avoidance of high-potassium diets by captive meadow voles — *Paul A. Mickelson* and *Donald P. Christian* 177

Abundance and food-searching intensity of wood mice (*Apodemus sylvaticus*) in fragmented forests — *J. L. Tellería, T. Santos,* and *M. Alcántara* 183

General Notes

Comparative abundances of neotropical small mammals by trap height — *Jay R. Malcolm* 188

Track counts as indices to abundances of arboreal rodents — *Andrew B. Carey* and *Joseph W. Witt* 192

Banded karyotypes of *Ctenomys mendocinus* (Rodentia: Octodontidae) from Mendoza, Argentina — *Alicia I. Massarini, Maria A. Barros, Virgilio G. Roig,* and *Osvaldo A. Reig* 194

Observations on the preputial glands of three species of *Rattus* — *Stephen A. Mallick* 198

Pupping-site fidelity of Antarctic fur seals at Bird Island, South Georgia — *N. J. Lunn* and *I. L. Boyd* 202

Reproductive biology of captive capybaras — *Colin A. Chapman* 206

Influence of age on the reproductive effort of male reindeer — *Ilpo Kojola* 208

Circannual changes in reproductive organs and spermatogenesis in male Saskatchewan beavers — *Terry W. Rock, Peter F. Flood,* and *Norman C. Rawlings* 211

Derived features of giraffid ossicones — *Denis Geraads* 213

Evidence for the presence of ossicones in *Giraffokeryx punjabiensis* (Giraffidae, Mammalia) — *N. Solounias* and *S. M. C. Moelleken* 215

Reviews

The natural history of moles — *Charles A. Reed* 218

Dispersal in rodents: a resident fitness hypothesis — *Jerry O. Wolff, William Z. Lidicker, Ronald K. Chesser,* and *Michael H. Smith* 218

Books Received — 220

Comments and News — 222

Erratum — 229

NUMBER 2

Social relationships of adult black-lipped pikas (*Ochotona curzoniae*) ... *Andrew T. Smith* and *Wang Xue Gao* 231

Evolutionary implications of genic variation among insular populations of *Peromyscus maniculatus* and *Peromyscus oreas* ... *Stuart W. Calhoun* and *Ira F. Greenbaum* 248

Geographic variation and taxonomy of the southeastern shrew (*Sorex longirostris*) ... *Cheri A. Jones, Stephen R. Humphrey, Thomas M. Padgett, Robert K. Rose,* and *John F. Pagels* 263

Genetic variation in the silky pocket mouse (*Perognathus flavus*) in Texas and New Mexico ... *Thomas E. Lee, Jr.,* and *Mark D. Engstrom* 273

Genetic relationships among eight species of *Eptesicus* and *Pipistrellus* (Chiroptera: Vespertilionidae) ... *Juan Carlos Morales, Scott W. Ballinger, John W. Bickham, Ira F. Greenbaum,* and *Duane A. Schlitter* 286

A new genus of fossil octodontine rodent from the Early Pleistocene of Argentina ... *Osvaldo A. Reig* and *Carlos A. Quintana* 292

Dietary choice of a generalist grassland herbivore, *Sigmodon hispidus* ... *J. C. Randolph, Guy N. Cameron,* and *John A. Wrazen* 300

Food selection of a tropical mammalian folivore in relation to leaf-nutrient content ... *Michael R. Willig* and *Thomas E. Lacher, Jr.* 314

Cuterebra infestations in small-mammal communities as influenced by herbicides and fire ... *James F. Boggs, Robert L. Lochmiller, Scott T. McMurry, David M. Leslie, Jr.,* and *David M. Engle* 322

Population dynamics of white-tailed prairie dogs during an epizootic of sylvatic plague ... *George E. Menkens, Jr.,* and *Stanley H. Anderson* 328

Population dynamics of the meadow vole (*Microtus pennsylvanicus*) in nutrient-enriched old-field communities ... *A. Tilghman Hall, Paul E. Woods,* and *Gary W. Barrett* 332

Males accelerate reproductive development in female montane voles ... *D. Kim Sawrey* and *Donald A. Dewsbury* 343

Analysis of spatial organization of a desert rodent community in Bolson de Mapimi, Mexico ... *Konstantin Rogovin, Georgiy Shenbrot,* and *Alexey Surov* 347

Longevity and survival in a population of white-footed mice (*Peromyscus leucopus*) ... *Malcolm D. Schug, Stephen H. Vessey,* and *Andrew I. Korytko* 360

Response of fox squirrels and gray squirrels to a late spring–early summer food shortage ... *John L. Koprowski* 367

Mustelid, squirrel, and porcupine population trends during a snowshoe hare cycle ... *Lloyd B. Keith* and *John R. Cary* 373

Activity patterns, movements, and reproductive ecology of fishers in southcentral Maine ... *Stephen M. Arthur* and *William B. Krohn* 379

Wrestling play in adult river otters, *Lutra canadensis* ... *Annamarie L. Beckel* 386

Seasonal resource use among mountain lions, bobcats, and coyotes ... *Gary M. Koehler* and *Maurice G. Hornocker* 391

Winter spatial relationships of wolves and coyotes in Riding Mountain National Park, Manitoba ... *Paul C. Paquet* 397

Social behavior in captive Virginia opossums, *Didelphis virginiana* ... *Donna J. Holmes* 402

General Notes

Chromosomal variation in the water rat *Dasymys incomtus* (Rodentia: Muridae) ... *Douglas H. Gordon* 411

Crepuscular activity of *Molossus molossus* ... *Julia Chase, Martha Yepes Small, Elizabeth A. Weiss, Deva Sharma,* and *Shiva Sharma* 414

Avoidance of inbreeding in the meadow vole (*Microtus pennsylvanicus*) ... *Eric K. Bollinger, Steven J. Harper, J. Michael Kramer,* and *Gary W. Barrett* 419

"DNA fingerprinting" of prairie voles (*Microtus ochrogaster*) ... *Donald B. Hoagland, Nanda Tilakaratne, Robert F. Weaver,* and *Michael S. Gaines* 422

Reviews

Molecular systematics ... *Robert J. Baker* 427

The mammals of Nigeria ... *Duane A. Schlitter* 427

Books Received ... 429

Obituary

Vasco Myron Tanner: 1892–1989 ... *H. Duane Smith and Herbert H. Frost* 430

Comments and News ... 433

NUMBER 3

Differences in habitat use and grouping behavior between macropods and eutherian herbivores — *Timothy F. Clancy* and *David B. Croft* 441
Sexual dimorphism in the greater one-horned rhinoceros (*Rhinoceros unicornis*) — *Eric Dinerstein* 450
Distribution and ecology of small mammals along an elevational transect in southeastern Luzon, Philippines — *Eric A. Rickart, Lawrence R. Heaney,* and *Ruth C. B. Utzurrum* 458
Habitat associations and relative densities of rodent populations in cultivated areas of central Argentina — *James N. Mills, Barbara A. Ellis, Kelly T. McKee, Julio I. Maiztegui,* and *James E. Childs* 470
Variation in mammalian physiological responses to a condensed tannin and its ecological implications — *C. T. Robbins, A. E. Hagerman, P. J. Austin, C. McArthur,* and *T. A. Hanley* 480
Interannual variation in timing and synchrony of parturition in Dall's sheep — *Janet L. Rachlow* and *R. Terry Bowyer* 487
The relationship between body size, diet, and habitat use in frugivorous bats, genus *Carollia* (Phyllostomidae) — *Theodore H. Fleming* 493
Effects of plant litter on foraging and nesting behavior of prairie rodents — *Bryon K. Clark* and *Donald W. Kaufman* 502
Effects of food perishability, distance, and competitors on caching behavior by eastern woodrats — *Diane Post* and *O. J. Reichman* 513
Rodent dynamics in relation to fire in the Sonoran Desert — *Lee H. Simons* 518
Age-specific natality of northern elephant seals at the South Farallon Islands, California — *Harriet R. Huber, Ane C. Rovetta, Laurie A. Fry,* and *Stuart Johnston* 525
Hybrid breakdown in *Peromyscus leucopus* and examination of the recombinational-breakdown model — *Ronald M. Adkins, Karen McBee, Calvin A. Porter,* and *Robert J. Baker* 535
A genic comparison of spiny mice, genus *Acomys* — *Laura L. Janecek, Duane A. Schlitter,* and *I. L. Rautenbach* 542
Mitochondrial-DNA phylogeny of deer (Cervidae) — *Matthew A. Cronin* 553
Martes nobilis is a synonym of *Martes americana*, not an extinct Pleistocene-Holocene species — *Phillip M. Youngman* and *Frederick W. Schueler* 567
Craniodental allometry in the African wild cat, *Felis lybica* — *Julius A. Kieser* and *H. T. Groeneveld* 578
Taxonomy and distribution of the Idaho ground squirrel, *Spermophilus brunneus* — *Eric Yensen* 583
Spatial relationships and dispersal patterns in the rock squirrel, *Spermophilus variegatus* — *Walter M. Shriner* and *Peter B. Stacey* 601
Effects of woodchuck activity on woody plants near burrows — *Robert K. Swihart* and *Peter M. Picone* 607

General Notes
Fluctuations in the weight and trap response for *Glaucomys sabrinus* in western Oregon — *Joseph W. Witt* 612
Diet of the northern flying squirrel at Sagehen Creek, California — *Darrell S. Hall* 615
Growth from birth to weaning in the southern elephant seal (*Mirounga leonina*) — *Christophe Guinet* 617
Body weights and sex and age ratios for the swamp rabbit in Mississippi — *William E. Palmer, George A. Hurst, Bruce D. Leopold,* and *Dan C. Cotton* 620
Response of adult woodchucks (*Marmota monax*) to oral-gland scents — *Paul T. Meier* 622
Factors influencing female-pup scent recognition in Mexican free-tailed bats — *W. J. Loughry* and *Gary F. McCracken* 624
A response to solving the enigma of population cycles with a multifactorial perspective — *Michael S. Gaines, Niles Chr. Stenseth, Michael L. Johnson, Rolf A. Ims, Søren Bondrup-Nielsen* 627
In defense of a multifactor perspective in population ecology — *William Z. Lidicker, Jr.* 631

Reviews
Books Received — 637
Comments and News — 643

Sodium and potassium effects on adrenal-gland indices of mineral balance in meadow voles — *John J. Hastings, Jr., Donald P. Christian, Thomas E. Manning, and Calvin C. Harth* 641
Seasonal water influx and energy expenditure of free-living fat sand rats — *A. Allan Degen, Arava Hazan, Michael Kam, and Kenneth A. Nagy* 652
Morphology of the glans penis in four genera of molossid bats (Chiroptera: Molossidae) — *James M. Ryan* 658
Biochemical systematics of the *Peromyscus boylii* species group — *John M. Sullivan, C. William Kilpatrick, and Paul D. Rennert* 669
Biochemical systematics of the *Peromyscus aztecus* assemblage — *John M. Sullivan and C. William Kilpatrick* 681
Hybrid breakdown and cellular-DNA content in a contact zone between two species of pocket gophers (*Geomys*) — *Robert D. Bradley, Scott K. Davis, Samuel F. Lockwood, John W. Bickham, and Robert J. Baker* 697
Spatial segregation in long-nosed bats, *Leptonycteris nivalis* and *Leptonycteris curasoae*, in Mexico — *Héctor T. Arita* 706
Miocene bats from the Lower Valentine Formation of northeastern Nebraska — *Nicholas J. Czaplewski* 715
Taxonomic status of the silver rice rat, *Oryzomys argentatus* — *Numi C. Goodyear* 723
Scaling of body weight in bats and rodents — *Cris Cristoffer* 731
Energetics and torpor in the Atacama Desert-dwelling rodent *Phyllotis darwini rupestris* — *Francisco Bozinovic and Pablo A. Marquet* 734
Activity budgets and mating system of male pronghorn antelope at Sheldon National Wildlife Refuge, Nevada — *Christine R. Maher* 739
Adaptive variation in sex ratios of offspring in nutritionally stressed mule deer — *Thomas E. Kucera* 745
Changes in body size associated with range expansion in the coyote (*Canis latrans*) — *Joanne M. Thurber and Rolf O. Peterson* 750
Predispersal movements of coyote (*Canis latrans*) pups in eastern Maine — *Daniel J. Harrison, Joyce A. Harrison, and M. O'Donoghue* 756
Influence of illumination and surface structure on space use by prairie deer mice (*Peromyscus maniculatus bairdii*) — *Dianne B. Brillhart and Donald W. Kaufman* 764
Latrine use by the European rabbit (*Oryctolagus cuniculus*) — *Ian A. Sneddon* 769
Antisnake behavior of Columbian ground squirrels (*Spermophilus columbianus*) — *Steven R. Towers and Richard G. Coss* 776
Arboreal nests of *Phenacomys longicaudus* in Oregon — *Anne-Marie Gillesberg and Andrew B. Carey* 784
Resightings of independent fin whales, *Balaenoptera physalus*, on maternal summer ranges — *Phillip J. Clapham and Irene E. Seipt* 788
Influence of *Marmota monax* on vegetation in hayfields — *Robert K. Swihart* 791
Intraspecific variation in life-history traits of the white-tailed jackrabbit (*Lepus townsendii*) — *Gordon L. Rogowitz and Michael L. Wolfe* 796
Reproductive biology of captive wolverines — *Rodney A. Mead, Mark Rector, Greg Starypan, Sandra Neirinckx, Mike Jones, and Michael N. DonCarlos* 807

General Notes
Feeding and spatial ecology of *Felis geoffroyi* in southern Patagonia — *Warren E. Johnson and William L. Franklin* 815
Trophic-niche relationships among *Galictis cuja*, *Dusicyon culpaeus*, and *Tyto alba* in central Chile — *Luis A. Ebensperger, Jorge E. Mella, and Javier A. Simonetti* 820
Orientation of diggings of the aardvark — *W. R. J. Dean and W. Roy Siegfried* 823
Dorsal-gland activity in peccaries at various physiological states — *P. G. Hannon, D. M. Dowdell, R. L. Lochmiller, and W. E. Grant* 825
Geographic distribution of *Molossops neglectus* Williams and Genoways (Chiroptera: Molossidae) — *César F. Ascorra, Don E. Wilson, and Charles O. Handley, Jr.* 828
Sightings and feeding of gray whales in the northern Gulf of California — *Bernie R. Tershy and Dawn Breese* 830

Reviews
Current mammalogy, by H. H. Genoways (ed.) — *J. Knox Jones, Jr.* 832
Primate evolution, by G. C. Conroy and Primate origins and evolution, by R. D. Martin — *Mark F. Teaford* 832
Books Received — 834
Annual Meeting — 835
Comments and News — 839
Erratum — 844
Index — 845